

Claims

1. Method for the transmission of data via at least one subscriber's connection (TA) located in at least one communication network (OKN),
5 in which connection data (port-id) representing the at least one subscriber's connection (TA) is transmitted to the communication network (OKN, ASR) and in which the transmitted connection data (port-id) is used to authenticate the data to be transmitted via the at least one subscriber's connection
10 (TA).
2. Method in accordance with claim 1, characterized in that, the connection data (port-id) is designed as a port identification or PORT-ID and/or represents at least one
15 subscriber connecting line (TAL) connected to the at least one subscriber's connection (TA).
3. Method in accordance with claim 1 or 2, characterized in that, the transmitted connection data (port-id) is stored in the
20 communication network (OKN, ASR).
4. Method in accordance with one of the preceding claims, characterized in that, the data to be transmitted is transmitted within the framework of a communication link (PPPoE) via the at least one
25 subscriber's connection (OKN), in which the connection data (port-id) is at least transmitted to the communication network (BKN, ASR) on the establishment of a communication link (PPPoE).
5. Method in accordance with one of the preceding claims,
30 characterized in that,

the communication network (BKN) is designed as a packet-oriented or a cell-oriented communication network, and that the data and the connection data (port-id) are transmitted by means of the PPP protocol.

5 6. Method in accordance with claim 5,
characterized in that,
the packet-oriented or cell-oriented communication network
(OKN) is at least partly designed in accordance with the
Ethernet transmission method.

10 7. Method in accordance with claim 6,
characterized in that,
the data and the connection data (port-id) are transmitted via
the at least one subscriber's connection (TA) in accordance
with the PPPoE transmission method in accordance with RFC
15 2516.

8. Method in accordance with claim 7,
characterized in that,
the connection data (port-id) is inserted as the "Relay
Session ID TAG" into the PPPoE Active Discovery (PADI)
20 messages transmitted via the at least one subscriber's
connection (TA) to the communication network (OKN, ASR).

9. Method in accordance with claim 7 or 8,
characterized in that,
the at least one subscriber's connection (TA) which is
25 allocated to a switching device (VE) located in a
communication network (OKN), in which through the switching
device (VE), the connection data (port-id) is inserted into
the PPPoE Active Discovery (PADI) messages and is forwarded to
an access network element (ASR) located in the at least one
30 communication network (OKN) and which is transmitted further
to the access network element controlling the at least one

communication network (OKN, IP).

10. Method in accordance with claim 9,
characterized in that,

in the access network element (ASR), the "Relay Session ID
5 TAG" identifies data in the transmitted PPPoE Active Discovery
(PADI) messages, extracts the connection data (port-id) and
the extracted connection data (port-id) is transmitted from
the access network element (ASR) to an authentication network
element (RADS) located in the communication network (OKN), in
10 which the data to be transmitted is verified by the
authentication network element (RADS) by using the transmitted
connection data (port-id).

11. Method in accordance with one of the preceding claims,
characterized in that,

15 via the at least one subscriber's connection (TA), at least
one subscriber is connected to the communication network
(OKN), and that
the verification of the authentication is carried out by using
the transmitted connection data (port-id) and by using the
20 subscriber data representing the at least one subscriber.

12. Method in accordance with claim 11,
characterized in that,

the subscriber data includes at least one user name and at
least one password.

25 13. Communication system for the transmission of data via at
least one subscriber's connection (TA) located in at least one
communication network (OKN),
with the means (EM) for the transmission of connection data
(port-id) to the communication network (OKN) representing the
30 at least one subscriber's connection,
with the authentication means (RADS) located in the

communication network (OKN) in order to verify the authenticity of the data to be transmitted via the at least one subscriber's connection (TA) by using the transmitted connection data (port-id).

5 14. Communication system according to claim 13,
characterized in that,
the at least one subscriber's connection and the means (EM)
for the transmission of the connection data (port-id) is
allocated to a switching device (VE) located in the
10 communication network.

15. Communication system according to claim 13 or 14,
characterized in that,
the communication network is at least partly designed in
accordance with the Ethernet transmission method, in which the
15 data to be transmitted is transmitted via the at least one
subscriber's connection (TA) in accordance with the PPPoE
transmission method in accordance with RFC 2516.

16. Communication system according to claim 15,
characterized in that,
20 the means (EM) for the transmission of connection data (port-
id) is designed in such a way that via these means the
connection data (port-id) is inserted as the "Relay Session ID
TAG" into the PPPoE Active Discovery (PADI) messages
transmitted via the at least one subscriber's connection (TA)
25 to the communication network (OKN, ASR).